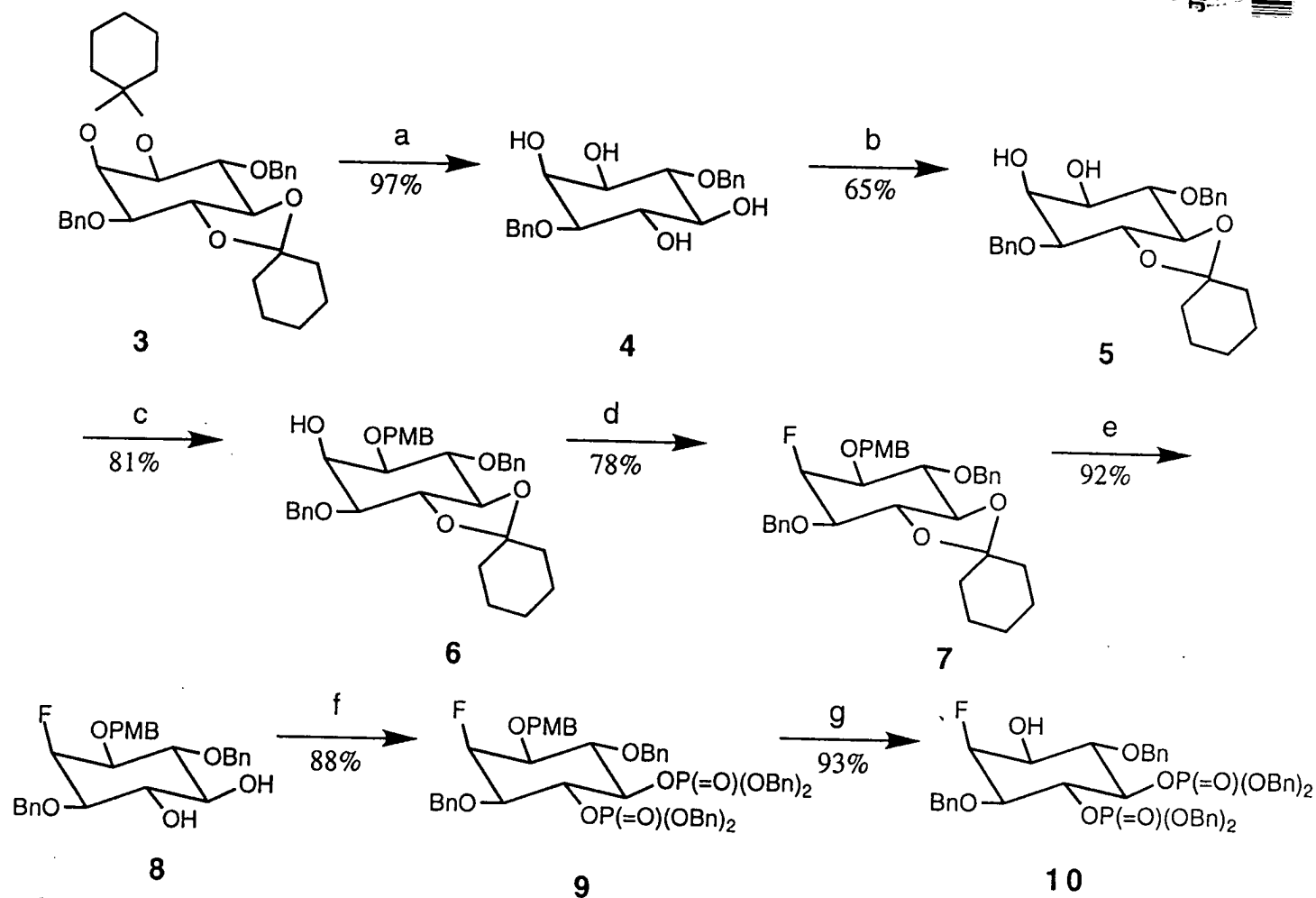
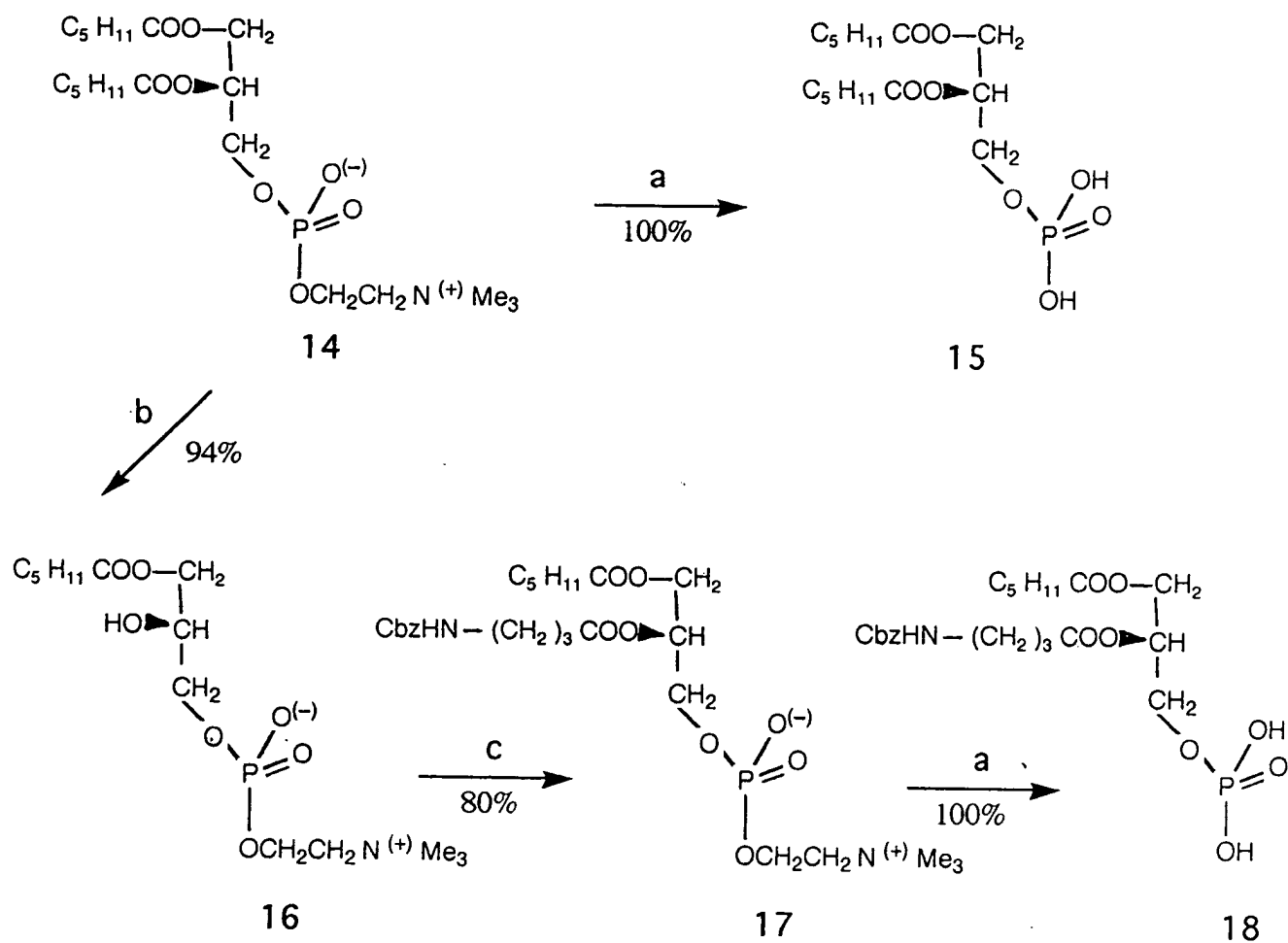


FIG 1



Scheme I: Synthesis of 1D-3,6-di-*O*-benzyl-2-deoxyfluoro-*myo*-inositol-4,5-bis(dibenzylphosphate) 10. **Reagents and Conditions:** (a) HOAc/H₂O (90:10), 95 °C. (b) Cyclohexanone dimethylketal (1.2 eq.), DMSO, 40-45 °C, red. press. (c) Bu₂SnO, toluene, 110 °C; DMF, 4-MBnCl, CsF, 80 °C. (d) CH₂Cl₂, DAST, NEt₃, 35-40 °C. (e) Ethylene glycol (1.1 eq.), *p*-TSA, CH₂Cl₂, R.T. (f) (*i*-Pr)₂NP(OBn)₂, 1*H*-tetrazole, CH₂Cl₂, -40°C, *m*-CPBA. (g) DDQ, CH₂Cl₂, R.T.

FIG 2



Scheme II: Synthesis of 1,2-di-*O*-hexanoyl-*sn*-glycero-3-phosphoric acid (15) and 1-*O*-hexanoyl-2-*O*-(ω-Cbz-aminobutanoyl)-*sn*-glycero-3-phosphoric acid (18). *Reagents and Conditions:* (a) NaOAc buffer pH 8.5, 37 °C, PLD. (b) Ether-NaOAc buffer pH 8.5, 37 °C, PLA₂. (c) ω-Cbz-aminobutanoic acid, DCC, DMAP, CHCl₃, R.T.